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				Application Number	10/086,171		
		ON DISCLOS		Filing Date	February 28, 2002		
	STATEMENT BY APPLICANT (use as many sheets necessary)			First Named Inventor	Betts		
	(100 00 110)		"	Group Art Unit	2874		
				Examiner Name	Unknown		
SHEET 1 OF 1				Docket Number	MODE1140-1		
				II S PAT	FINT DOCUMENTS		

U.S. PATENT DOCUMENTS						
Examiner		U.S. Patent	Document	Name of Patentee or Applicant	Date of Publication	Pages, Columns, Lines, Where
Initials*	Cite No.1	Number	Kind Code ² (If known)	of Cited Document	of Cited Document MM-DD-YYYY	Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Office ³	oreign Patent Doo	ument Kind Code ⁵ (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
5K		EPO	0388637		Nippon Telegraph and Telephone Corporation	February 16, 1990		
1								

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Ĺе						
9K		VInternational Search Report and Transmittal Notification for related application PCT/US02/11588 dated September 2, 2002							
SK	VPatent Abstracts of Japan: Publication No. 03229214, Publication Date 10-11-91, Applicant - Nippon Telegraph and Telephone Corp, entitled "Optical Modulation Element" (1 pg)								
SK	Sanagi and Nakajima, "Quasi-Matched-Velocity Traveling-Wave-Type Electrodes for Light Modulators and Their Analysis", Electronics and Communications in Japan, Part 2, Vol. 70, No. 8, August 1987, XP-002211813 (7 pgs)								
SK		Howerton, Moeller, Greenblatt and Krähenbühl, "Fully Packaged, Broad-Band LiNbO3 Modulator with Low Drive Voltage", IEEE Photonics Technology Letters, Vol. 12, No. 7, July 2000, XP-000968672 (3 pgs)							
SK		VNoguchi, Mitomi, and Miyazawa, "Push-Pull Type Ridged Ti:LiNbO3 Optical Modulator", 2334c IEICE Transactions on Electronics E79-C (1996) January, No. 1, Tokyo, JP, XP-000580155 (5 pgs)							
X		Gheorma, Savi and Osgood, "Thin Layer Design of X-Cut LINbO3 Modulators", IEEE Photonics Technology Letters, December 1, 2000, XP000981106 (3 pgs)							
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Examiner Signature Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through conformance and considered. Include copy of this form with next communication to applicant.

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PTO/SB/08B (08-00)

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	U.S. PATENT DOCUMENTS									
Evaminar	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Pages, Columns, Lines, Where				
Examiner Initials*		Number	Kind Code ² (If known)	of Cited Document	of Cited Document MM-DD-YYYY	Relevant Passages or Relevant Figures Appear				
_9K		4,807,952		Jaeger et al	02/28/89	3.				
	<u></u>									

	FOREIGN PATENT DOCUMENTS							
	014-	Fo	oreign Patent Do	cument	Name of Datastan or Applicant	Date of Publication		
Examiner Initials*	Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (If known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
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